

\*\*\*\*\*

\* Name: TuSetLogStudentFileName  
 \* Purpose: To set path and name of file to use for student logging  
 \* Input

\* Parameters: LPCSTR fnm  
 \* Path and name of file to use for student logging

\* Output  
 \* Parameters: none  
 \*

\* Function Return  
 \* Variables: TUT\_ERR\_OK  
 \*

\* Notes:  
 \*\*\*\*\*

```
*/
extern "C"
{
    long __export WINAPI TuSetLogStudentFileName( LPCSTR fnm );
}
```

```
/*
*****
```

\* Name: TuSetLogSubmissionFileName  
 \* Purpose: To set path and name of file to use for submission logging  
 \* Input

\* Parameters: LPCSTR fnm  
 \* Path and name of file to use for submission logging

\* Output  
 \* Parameters: none  
 \*

\* Function Return  
 \* Variables: TUT\_ERR\_OK  
 \*

\* Notes:  
 \*\*\*\*\*

```
*/
extern "C"
{
    long __export WINAPI TuSetLogSubmissionFileName( LPCSTR fnm );
```

}

/\*

\*\*\*\*\*

\* Name: TuSetLogErrFileName

\* Purpose: To set path and name of file to use for error logging

\* Input

\* Parameters: LPCSTR fnm

\* Path and name of file to use for error logging

\* Output

\* Parameters: none

\*

\* Function Return

\* Variables: TUT\_ERR\_OK

\* Notes:

\*\*\*\*\*

\*/

extern "C"

{

long \_\_export WINAPI TuSetLogErrFileName( LPCSTR fnm ),

}

/\*

\*\*\*\*\*

\* Name: TuSetTrace

\* Purpose: To turn Trace on and off

\* Input

\* Parameters: int TraceStatus

\* TUT\_TRACE\_ON :Turn Trace On

\* TUT\_TRACE\_OFF :Turn Trace Off

\* Output

\* Parameters: none

\*

\* Function Return

\* Variables: Previous Trace Status Value

\* TUT\_TRACE\_ON

\* TUT\_TRACE\_OFF

\*

\* TUT\_ERR\_INVALID\_TRACE\_STATUS

\* Notes:

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\*/

extern "C"

{

long \_\_export WINAPI TuSetTrace( int TraceStatus );

}

/\*

\*\*\*\*\*

\* Name: TuSetTrack

\* Purpose: To turn Tracking on and off. While tracking is on

\* all work the user does and all feedback the user receives

\* is kept. While Tracking is off only the most recent work is kept.

\* Input

\* Parameters: int TrackStatus

\* TUT\_TRACK\_ON :Turn Tracking On

\* TUT\_TRACK\_OFF :Turn Tracking Off

\* Output

\* Parameters: none

\* Function Return

\* Variables: Previous Trace Status Value

\* TUT\_TRACK\_ON

\* TUT\_TRACK\_OFF

\*

\* TUT\_ERR\_INVALID\_TRACK\_STATUS

\* Notes:

\*\*\*\*\*

\*/

extern "C"

{

long \_\_export WINAPI TuSetTrack( int TrackStatus );

}

### Simulation Engine

The idea is for the designer to model the task that he wants a student to accomplish using an Excel spreadsheet. Then, have an algorithm or engine that reads all the significant cells of the spreadsheet and notifies the Intelligent Coaching Agent with the appropriate information (SourceItemID, TargetID and Attribute). This way, the spreadsheet acts as a central repository for student data, contains most of the calculations required for the task and in conjunction with the engine handles all the communication with the ICA. The task is self contained in the spreadsheet, therefore the designers no longer need a graphical user interface to functionally test their designs (smart spreadsheet). Once the model and feedback for it are completely tested by